

ABSTRACT

The present invention is directed to certain catalyst compositions and processes that are capable of reducing sulfur compounds normally found as part of the gasoline fraction streams of fluid catalytic cracking processes. The present invention is a cracking catalyst composition comprising a zeolite in combination with a Lewis Acid containing component, wherein the cracking catalyst composition comprises 0.2% Na₂O or less. It has been found that sulfur compounds in hydrocarbon feeds to fluid catalytic cracking processes can be reduced by at least 15% compared to the same composition, which does not comprise the aforementioned Lewis Acid containing component.